

**The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130**

**DEVAL L. PATRICK  
GOVERNOR**

**TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR**

**JUDYANN BIGBY, MD  
SECRETARY**

**JOHN AUERBACH  
COMMISSIONER**

08/08/2011

Assistant District Attorney, Suffolk County

Dear ADA Lord,

Enclosed is the information you requested in regards to item # [REDACTED]  
Commonwealth vs. [REDACTED]

1. Curriculum Vitae for Hevis Lleshi and Annie Dookhan.
2. Drug Analysis Laboratory Receipt.
3. Control Card with analytical results for sample # [REDACTED]
4. Analysis sheet with custodial chemist's hand notations and test results.
5. GC analytical data for sample # [REDACTED]
6. GC/Mass Spectral analytical data for sample # [REDACTED]

Hevis Lleshi was the custodial chemist and performed preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Hevis Lleshi  
Chemist I  
Drug Analysis Laboratory  
Jamaica Plain, MA 02130  
(617) 983-6627

## Curriculum Vitae

Hevis Lleshi

### Education

Boston University School of Medicine – Master of Science, Forensic Science  
University of South Florida – Bachelor of Arts, Clinical Psychology

### Related Coursework

Forensic Chemistry • Forensic Toxicology • Forensic Pathology • Forensic DNA Analysis  
Organic / Analytical Chemistry • Forensic Biology • Biochemistry • Forensic Trace Evidence

### Employment

March, 2011 – Present  
Chemist I, Massachusetts Department of Public Health,  
Drug Analysis Laboratory

- Appointed Assistant Analyst by Assistant Commissioner of Public Health, June, 2011
- Responsible for the identification of substances to determine violation of harmful and narcotic drug laws of the Commonwealth of Massachusetts
- Trained in the use of complex analytical instrumentation for the purpose of forensic drug analysis

### Additional Training and Laboratory Experience

- Completed ten-week training course conducted by Laboratory Senior Staff within the Department of Public Health, Drug Analysis Laboratory
- Instrumental Forensic Chemistry/Toxicology Laboratory, Boston University, 2009
- Serology/Bloodstain Pattern Analysis Techniques, Boston University, 2009

Internship, MASSACHUSETTS STATE POLICE—MARINE SECTION, BOSTON, MA, 2008 – 2010

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### Associations

- American Academy of Forensic Sciences (AAFS)
- Boston University Forensic Science Society (BUFSS)

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)



CC # [REDACTED]

BOOK # 64

PAGE # 143

DESTRUCTION # \_\_\_\_\_

District/Unit A-1 DCU

Name & Rank of Arresting Officer S/D Wm DWAN ID# 10060

**To be completed by ECU personnel only**

Name and Rank of Submitting Officer Sgt. V. White ID# 11064

Received by \_\_\_\_\_ Date 2-7-71

ECU Control # \_\_\_\_\_

NO. [REDACTED] DATE ANALYZED: 07-06-11  
CITY: BOSTON D.C.U. POLICE  
OFFICER: P.O. SYBIL WHITE

DEF: [REDACTED]  
AMOUNT: SUBST: SUB  
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 7.190 NET WT: 2.97g  
#TESTS: 7

• 2 ASD

PRELIM: Cocaine (HLL) FINDINGS: cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY BostonANALYST HLL

No. of samples tested: \_\_\_\_\_

Evidence Wt. OK**PHYSICAL DESCRIPTION:**

Off white chunky substance base in evidence bag.

Gross Wt ( ): \_\_\_\_\_

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 2.9780g**PRELIMINARY TESTS**Spot TestsCobalt Thiocyanate ( ) + weak / + strong blue w/ acidMarquis —Froehde's —Mecke's —Microcrystalline TestsGold Chloride +TLTA (—) + (weak + w/ acid)OTHER TESTSGC : + Retentiontime similar to cocaine @ 3.6 minSee run on 6/29/2011**PRELIMINARY TEST RESULTS**RESULTS CocaineDATE 6/29/2011**GC/MS CONFIRMATORY TEST**RESULTS CocaineMS OPERATOR ASDDATE 7/6/2011

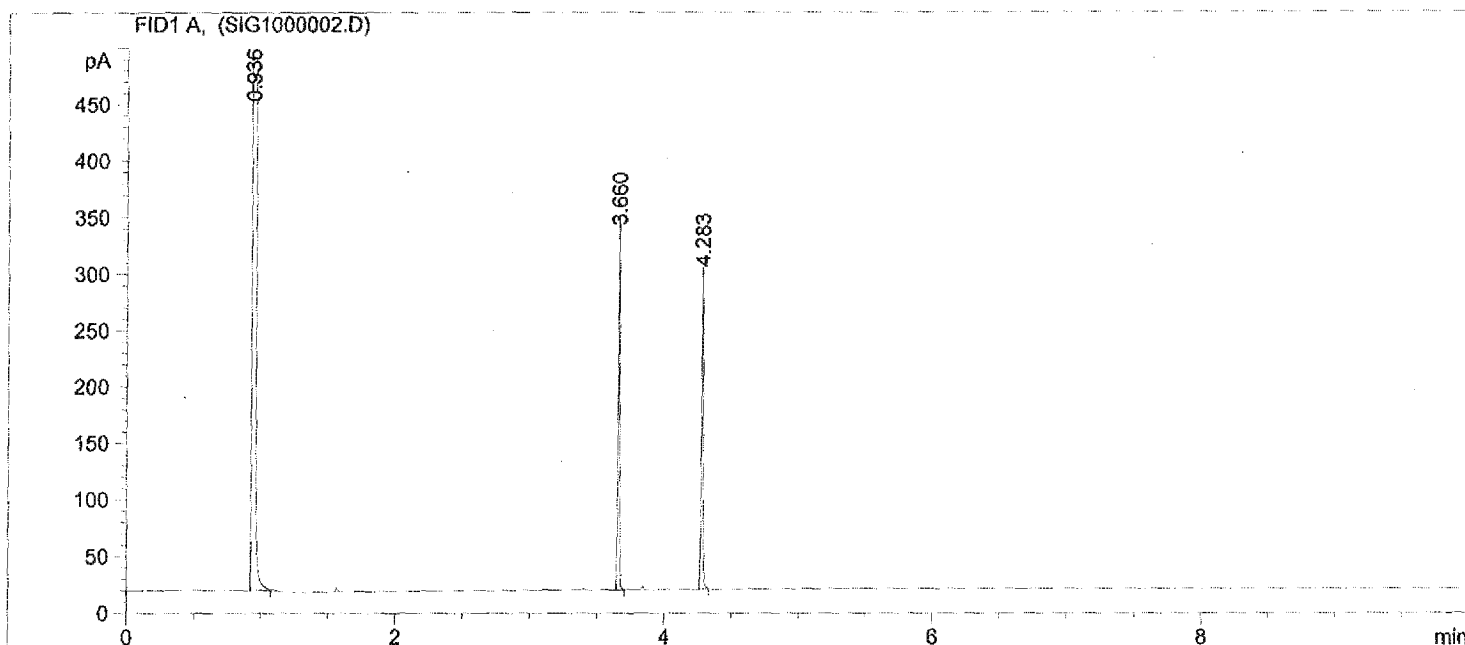
Sample Name: Cocaine/Codeine STD

```

=====
Acq. Operator   : ASD                      Seq. Line :    2
Acq. Instrument : DrugLab GC #2            Location  : Vial 2
Injection Date  : 6/29/2011 2:52:52 PM     Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed    : 7/28/2010 1:59:36 PM
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [ng/ul]   (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.936	1	BB S	5.51122e4	6.19411e4	99.06488
2	3.660	1	BB	266.51126	317.34833	0.47906
3	4.283	1	BB	253.72009	280.55545	0.45606

```
Totals :                5.56325e4  6.25390e4
```

```

=====
*** End of Report ***

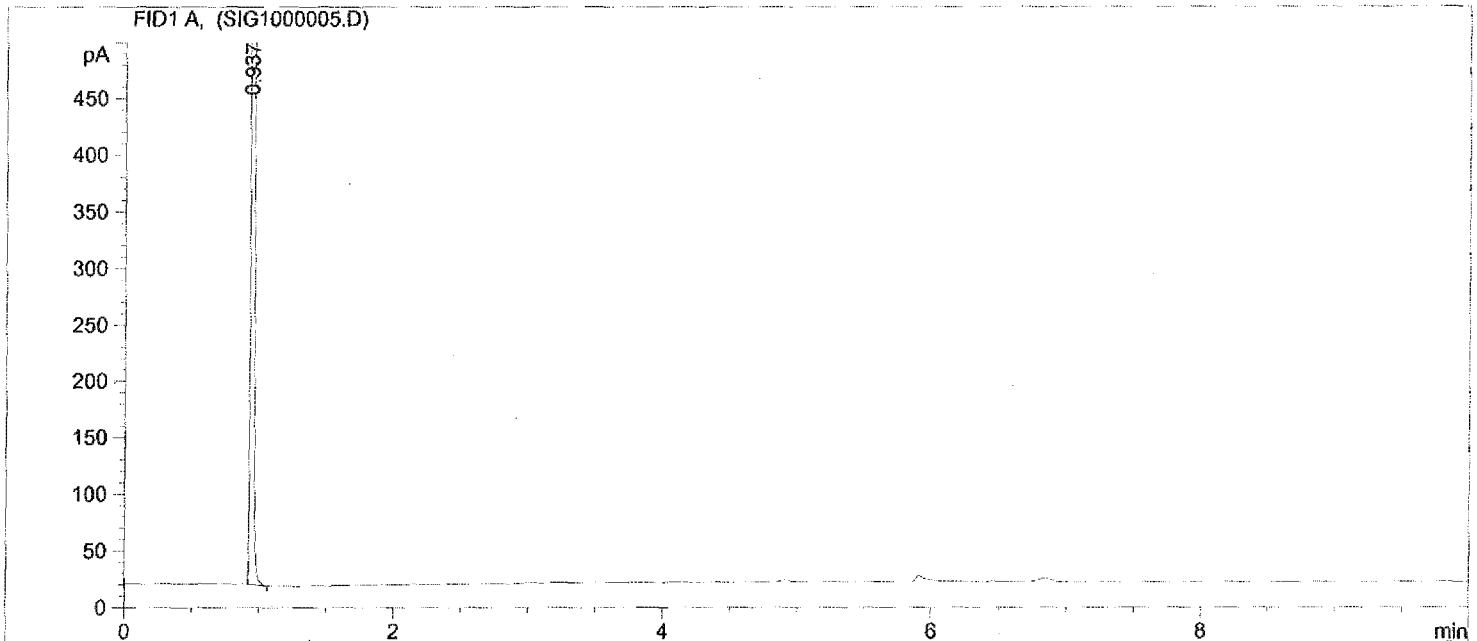
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Sample Name: Blank

```
=====
Acq. Operator   : ASD                      Seq. Line :    5
Acq. Instrument : DrugLab GC #2            Location  : Vial 5
Injection Date  : 6/29/2011 3:33:20 PM     Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed    : 7/28/2010 1:59:36 PM
=====
```



=====  
Area Percent Report  
=====

```
Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [ng/ul]   (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.937	1	BB S	5.72058e4	6.35074e4	1.000e2

Totals :                      5.72058e4   6.35074e4

=====  
\*\*\* End of Report \*\*\*

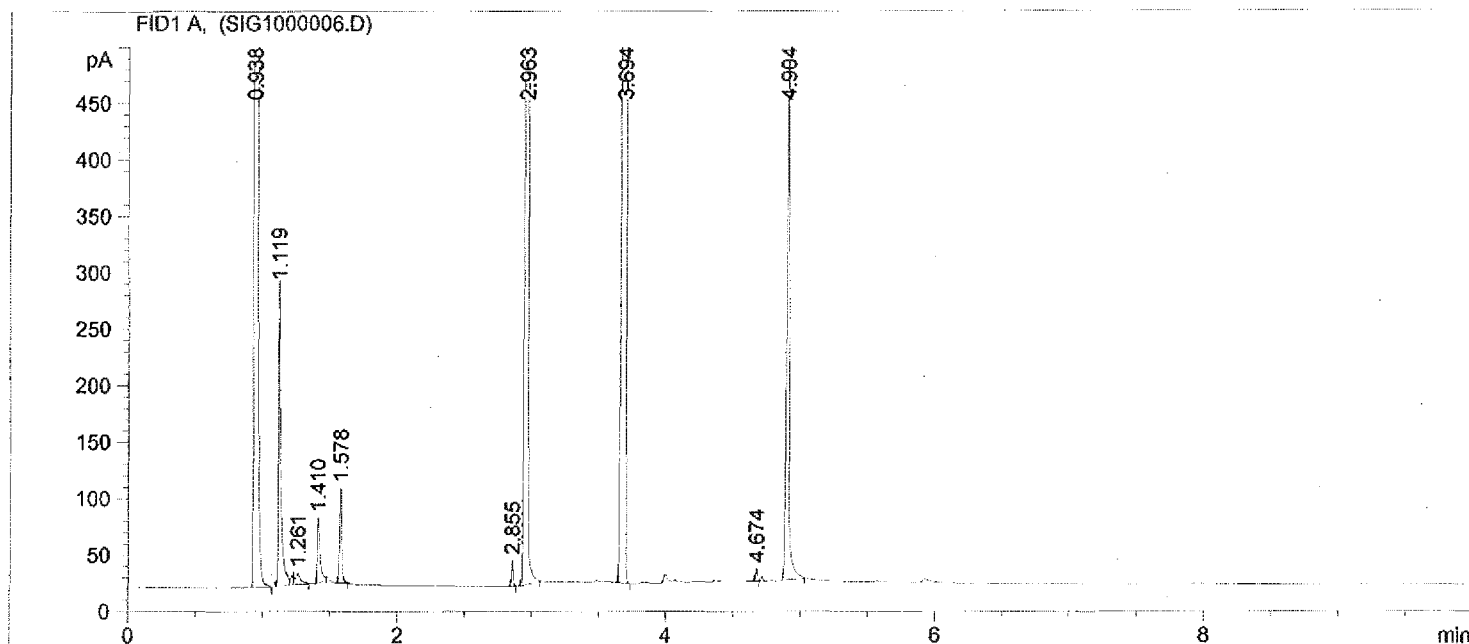
Sample Name: XXXXXXXXXX

```

=====
Acq. Operator   : ASD                      Seq. Line :    6
Acq. Instrument : DrugLab GC #2            Location  : Vial 6
Injection Date  : 6/29/2011 3:46:59 PM     Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed    : 7/28/2010 1:59:36 PM
=====

```



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=====
                        Area Percent Report
=====

```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:       :      1.00000 [ng/ul]   (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.938	1	BB S	4.51554e4	4.98877e4	85.14770
2	1.119	1	BV	324.74472	265.43051	0.61236
3	1.261	1	VB	28.95380	10.31206	0.05460
4	1.410	1	BB	83.49037	57.98993	0.15743
5	1.578	1	BB	97.51931	84.28214	0.18389
6	2.855	1	BB	18.59253	22.87146	0.03506
7	2.963	1	BB	1751.95483	1124.53784	3.30359
8	3.694	1	BB	4940.81201	3356.68677	9.31668
9	4.674	1	BV	10.47431	11.52129	0.01975
10	4.904	1	BB	619.91693	437.54306	1.16895

Totals :                    5.30319e4   5.52589e4

Area Percent / Library Search Report

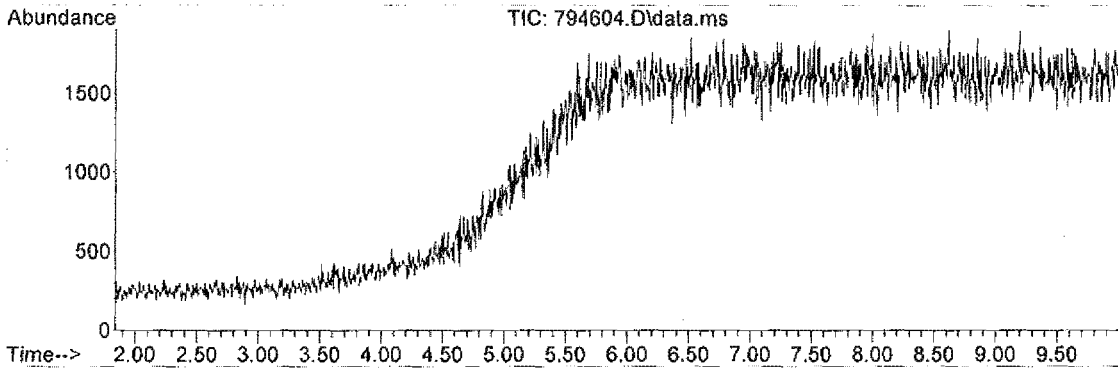
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Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794604.D  
Operator : ASD  
Date Acquired : 1 Jul 2011 11:09  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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✓ ASD  
8-5-11



Ret. Time	Area	Area %	Ratio %
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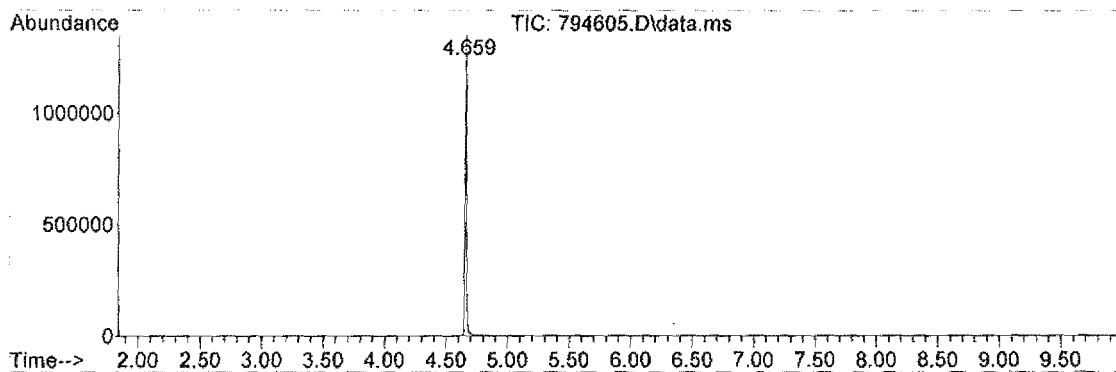
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

**Information from Data File:**

File Name : C:\msdchem\1\System7\07\_01\_11\794605.D  
 Operator : ASD  
 Date Acquired : 1 Jul 2011 11:22  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.659	1180928	100.00	100.00

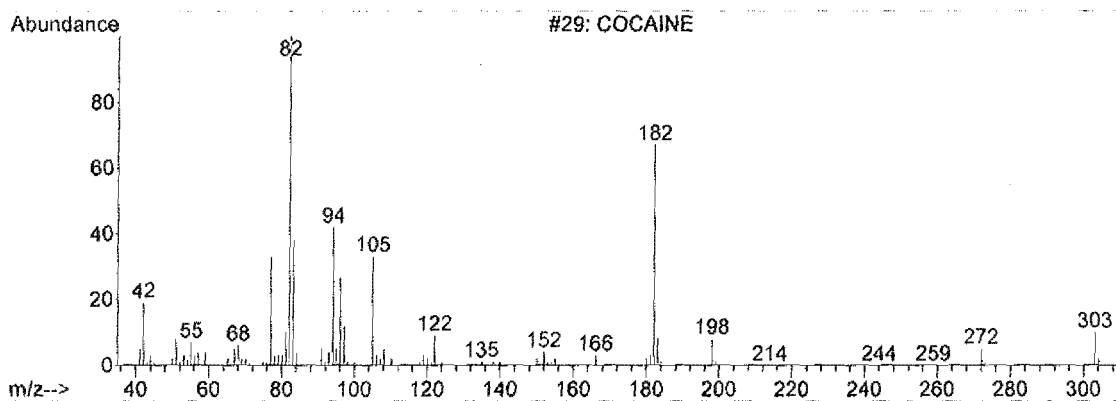
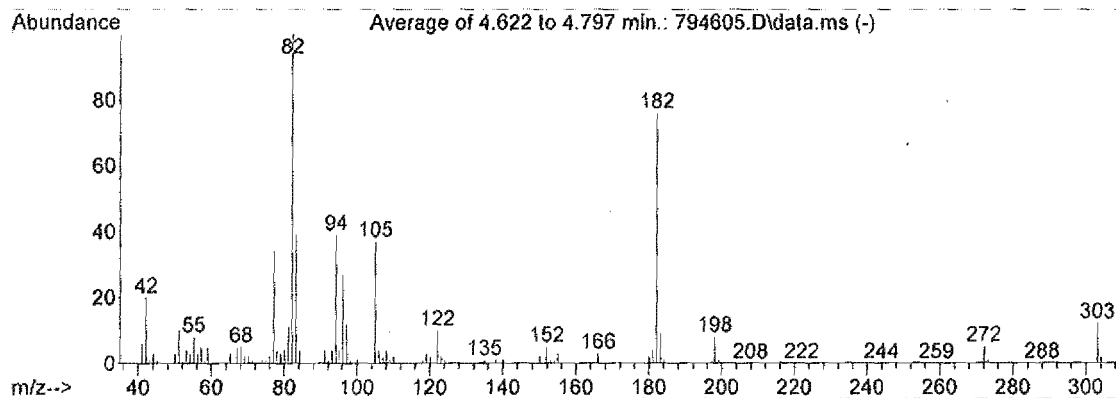
# Area Percent / Library Search Report

**Information from Data File:**

File Name : C:\msdchem\1\System7\07\_01\_11\794605.D  
 Operator : ASD  
 Date Acquired : 1 Jul 2011 11:22  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99



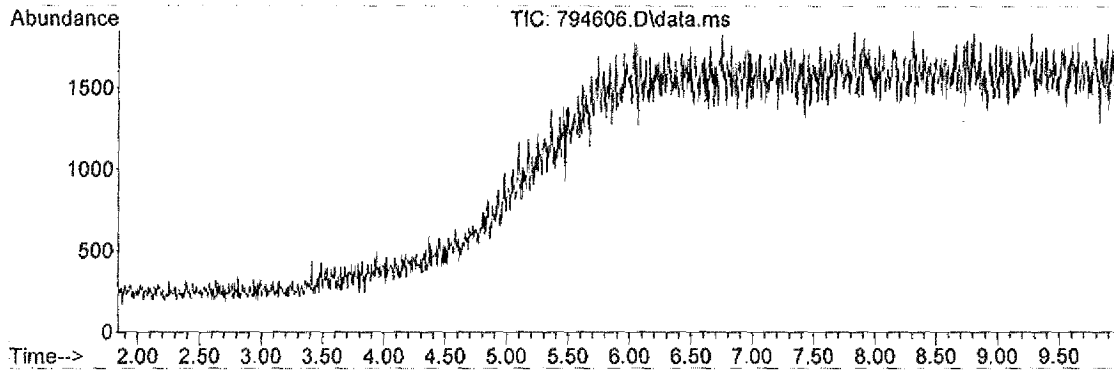
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794606.D  
Operator : ASD  
Date Acquired : 1 Jul 2011 11:34  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

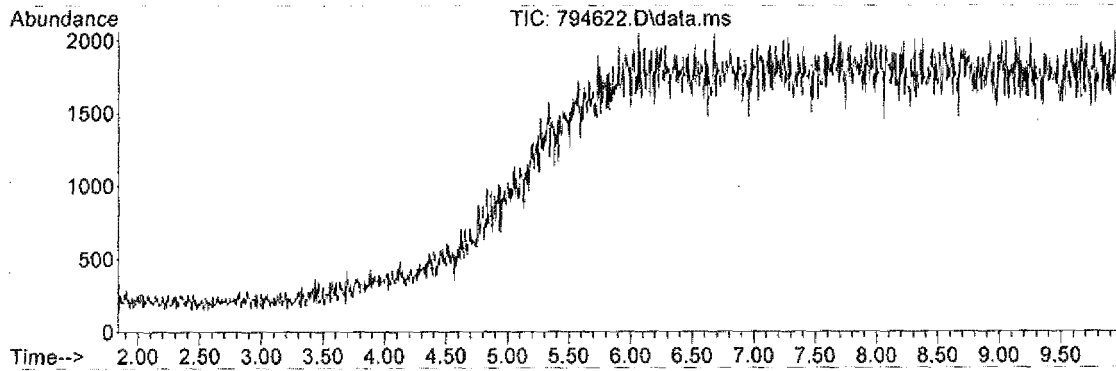
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794622.D  
Operator : ASD  
Date Acquired : 1 Jul 2011 14:58  
Sample Name : BLANK  
Submitted by : HLL  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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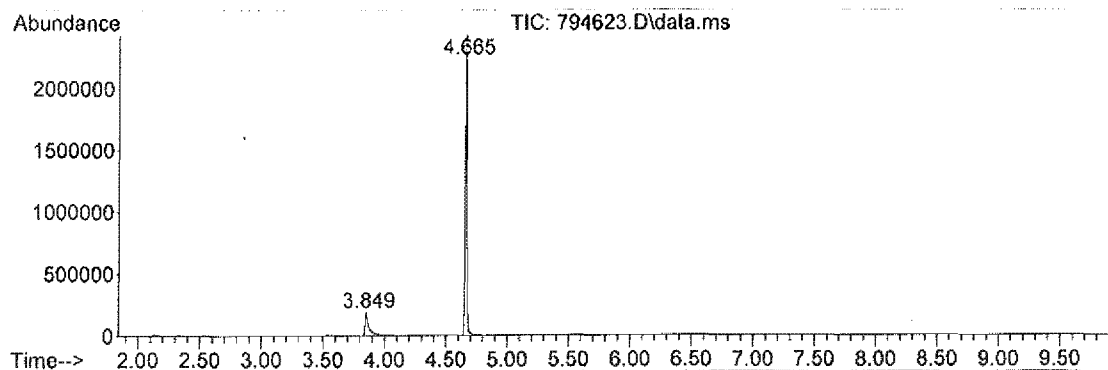
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794623.D  
 Operator : ASD  
 Date Acquired : 1 Jul 2011 15:11  
 Sample Name : XXXXXXXXXX  
 Submitted by : HLL  
 Vial Number : 23  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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4.665	2534917	84.52	100.00



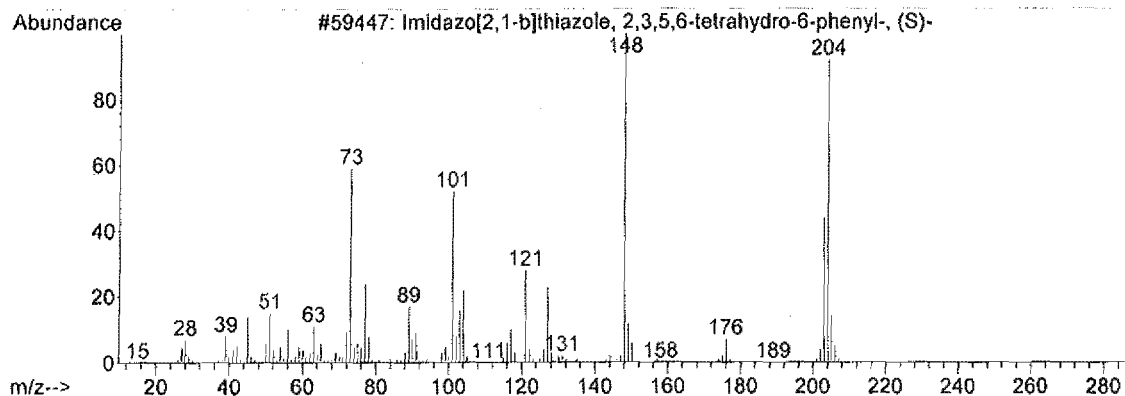
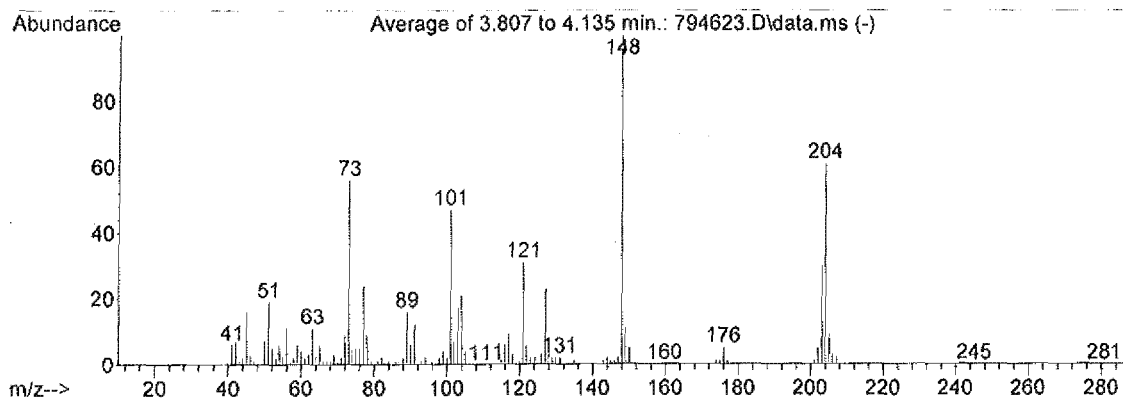
## Area Percent / Library Search Report

## Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794623.D  
Operator : ASD  
Date Acquired : 1 Jul 2011 15:11  
Sample Name : XXXXXXXXXX  
Submitted by : HLL  
Vial Number : 23  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.85	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	97



# Area Percent / Library Search Report

**Information from Data File:**

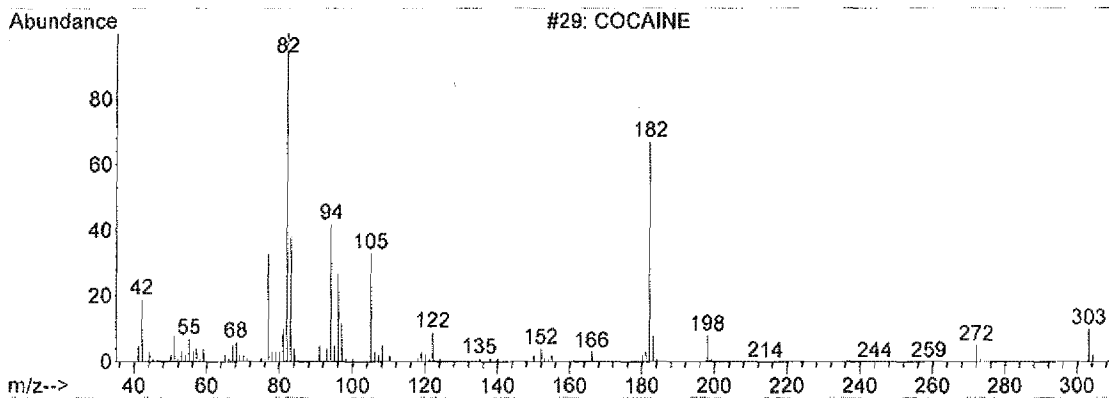
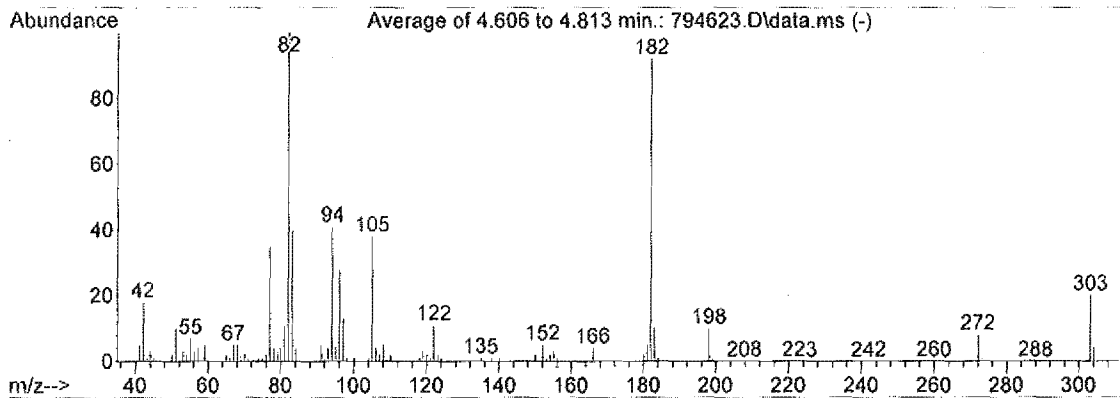
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File Name       : C:\msdchem\1\System7\07_01_11\794623.D
Operator        : ASD
Date Acquired   : 1 Jul 2011  15:11
Sample Name     : 
Submitted by    : HLL
Vial Number     : 23
AcquisitionMeth : DRUGS.M
Integrator      : RTE
  
```

```

Search Libraries: C:\Database\SLI.L           Minimum Quality: 80
                  C:\Database\NIST05a.L       Minimum Quality: 80
                  C:\Database\PMW_TOX2.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99



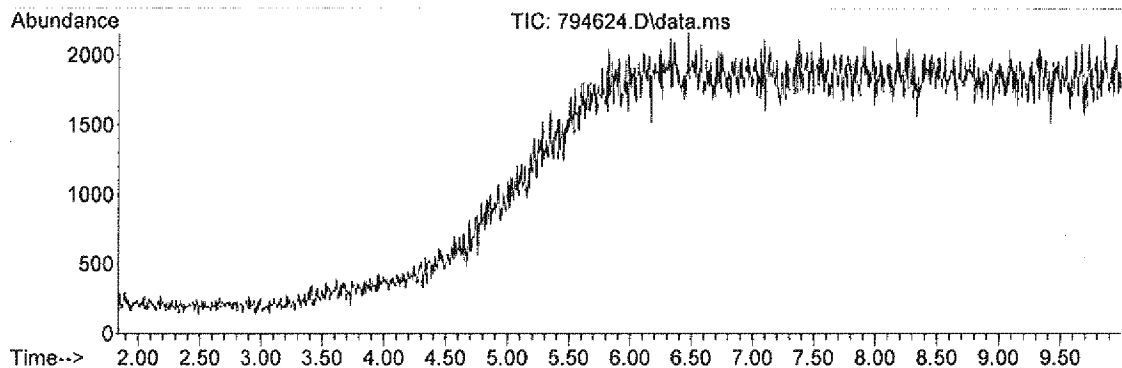
Area Percent / Library Search Report

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Information from Data File:

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Operator : ASD  
Date Acquired : 1 Jul 2011 15:23  
Sample Name : BLANK  
Submitted by : HLL  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

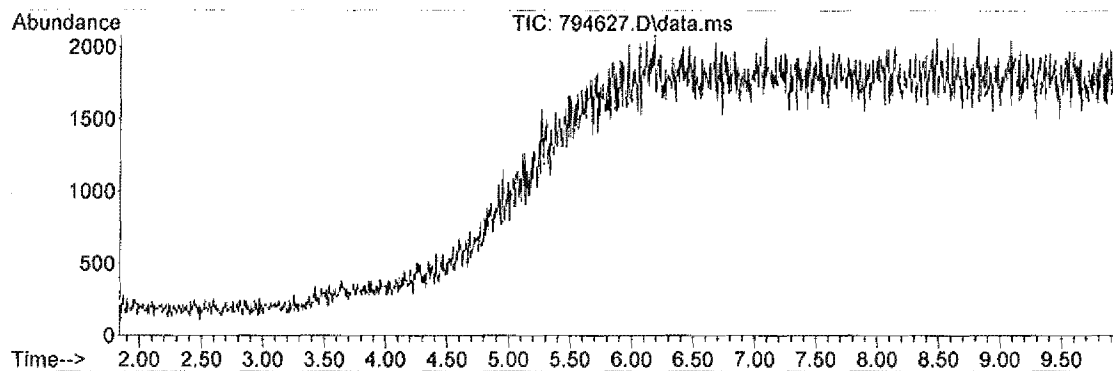
# Area Percent / Library Search Report

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## Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794627.D  
Operator : ASD  
Date Acquired : 1 Jul 2011 16:01  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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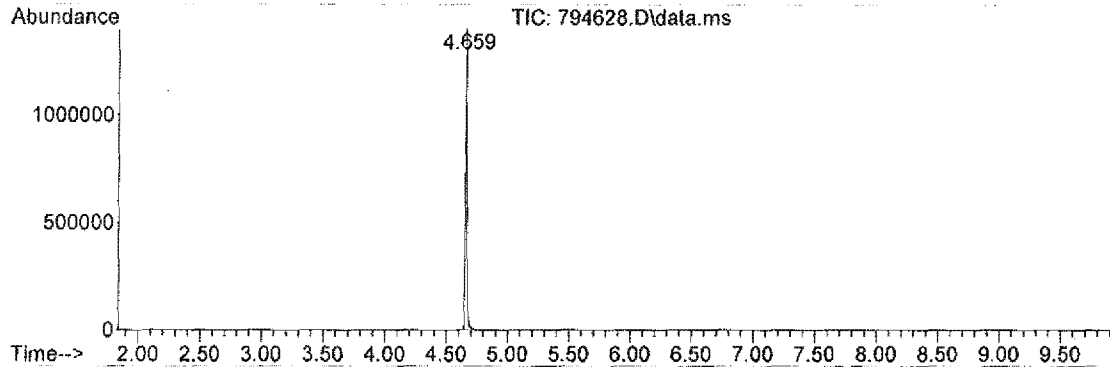
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\*\*\*NO INTEGRATED PEAKS\*\*\*

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794628.D  
 Operator : ASD  
 Date Acquired : 1 Jul 2011 16:14  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.659	1238857	100.00	100.00

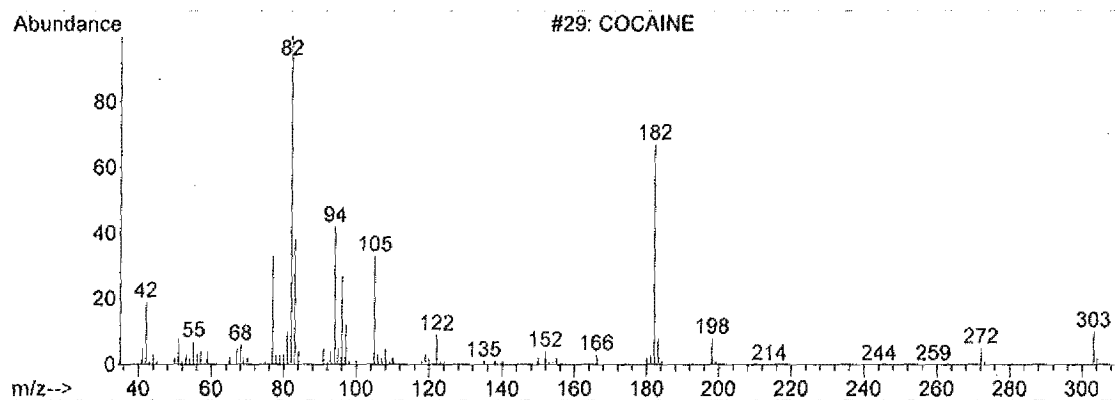
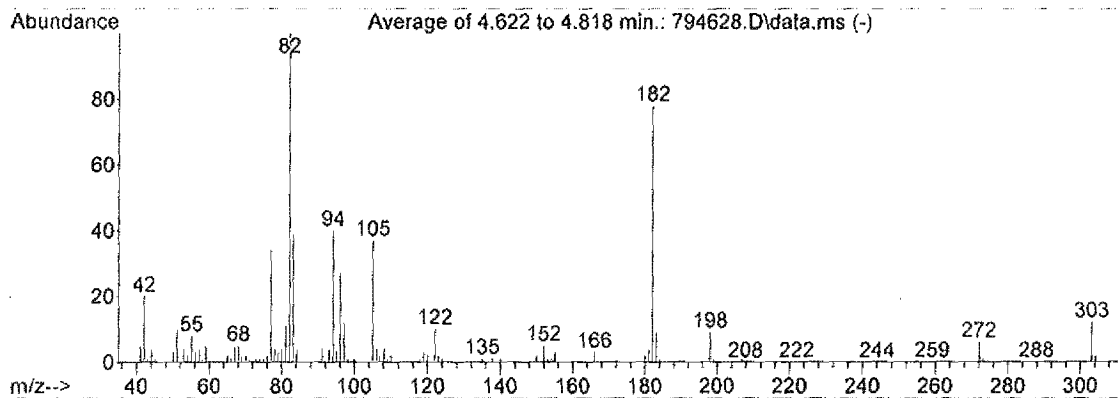
# Area Percent / Library Search Report

**Information from Data File:**

File Name : C:\msdchem\1\System7\07\_01\_11\794628.D  
 Operator : ASD  
 Date Acquired : 1 Jul 2011 16:14  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 5  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99



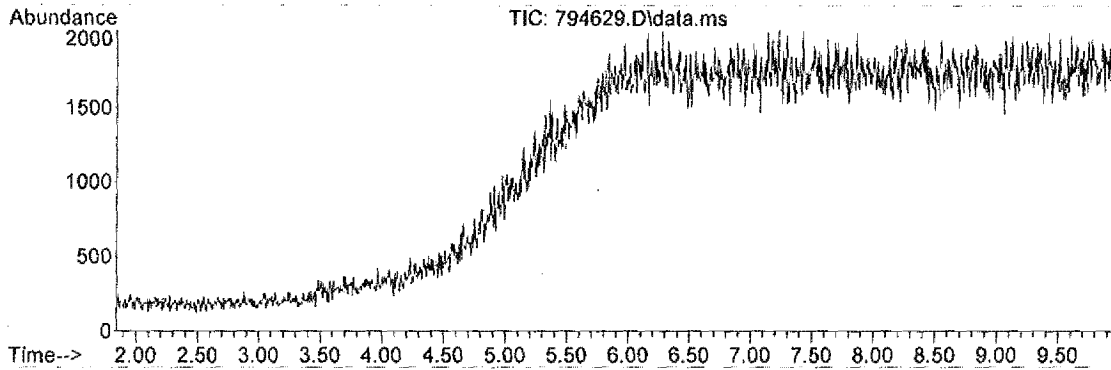
Area Percent / Library Search Report

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Information from Data File:

File Name : C:\msdchem\1\System7\07\_01\_11\794629.D  
Operator : ASD  
Date Acquired : 1 Jul 2011 16:27  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*